



IBW

PATENT APPLICATION
Mo7093D
MD02-30

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION OF)
)
ROBERT A. PYLES ET AL) GROUP ART UNIT: 1751
)
SERIAL NUMBER: 10/796,523) EXAMINER:
) Margaret V. Einsmann
FILED: March 9, 2004)
)
TITLE: A PROCESS FOR MAKING)
DYED ARTICLES)

COMMUNICATION

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with our response filed December 22, 2004, enclosed are the signed Declarations.

Respectfully submitted,

By

Aron Preis
Attorney for Applicants
Reg. No. 29,426

Bayer MaterialScience LLC
100 Bayer Road
Pittsburgh, Pennsylvania 15205-9741
(412) 777-3814
FACSIMILE PHONE NUMBER:
(412) 777-3902
s:\shared\vjt\AP7093Dcommunication

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an enveloped addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 1/11/05

Date

Aron Preis, Reg. No. 29,426

Name of applicant, assignee or Registered Representative

Signature

January 11, 2005

Date



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DECLARATION

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

I, Rick L. Archey, a citizen of the United States, do hereby declare as follows:

That my educational background includes a B.S. (Chemistry) obtained at West Liberty State College and an M.S. (Polymer Science) conferred upon me by Carnegie Mellon University.

That I have been in the employ of Bayer MaterialScience and its corporate predecessors for the past twenty five (25) years, and that within the scope of my employment I held several technical positions entailing research of polymeric systems including polycarbonate and polyurethane systems;

That I am a named co-inventor of the captioned Patent Application;

That I have read and understand the Office Action dated August 3, 2004 that issued in the prosecution of said Application;

That in support of the patentability of the invention claimed in said Application (Invention) I have obtained

- (i) a dye-free polycarbonate film measuring about 4 x 6" and
- (ii) a dye-free polyurethane test specimen in the form of a bladder measuring about 2x3".

That I have prepared a dyeing bath in accordance with the Invention, the bath containing approximately

70 pbw water,

0.15 pbw dye,

20 pbw of a plasticizing agent (ethylene glycol butyl ether= butyl cellusolve), and

10 pbw of a leveling agent (diethylene glycol).

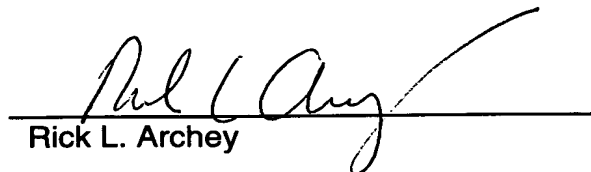
That I have dyed the film by immersing it in the dyeing bath maintained at 95°C for 3 minutes, removed, water-rinsed and dried the thus dyed film.

That I have dyed the bladder by immersing it in the dyeing bath maintained at 75°C for 3 minutes, removed, water-rinsed and dried the thus dyed film.

That I packed the dyed film and bladder in a plastic bag and provided these to Joe Martin for analyses.

The undersigned Declarant declares further that all statements made herein of his own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States code and that such willful false statements may jeopardize the validity of pending Application Serial Number 10/796,523 or any patent issuing thereon.

Signed at Pittsburgh PA this 7th day of January, 2005.


Rick L. Archey

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| DYED ARTICLES |) | |

DECLARATION

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

I, Joseph J. Martin, a citizen of the United States, do hereby declare:

That I am an employee of Bayer MaterialScience LLC, the successor in business to Bayer Polymers LLC, the assignee of the captioned Patent Application;

That for the past seven years, as a member of Polymer Analysis and Physics Department and within the scope of my employment responsibilities I have analyzed hundreds of polymeric systems;

That my educational background and experience qualifies me to carry out and interpret the results of mass spectroscopy;

That I received two dyed articles from Rick Archey;

That I have tested these articles for their compositional makeup by Headspace gas chromatography with a mass spectrum detector;


That the attached graphs are the correct permanent record of the results of these tests;

That based on these results I have confidently concluded that

- (i) The film marked 04P 1150PC film contained butylcellusolve, diethylene glycol and water, and
- (ii) The bladder marked 04P1150 TPU contained butylcellusolve, diethylene glycol and water.

The undersigned Declarant declares further that all statements made herein of his own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States code and that such willful false statements may jeopardize the validity of pending Application Serial Number 10/796,523 or any patent issuing thereon.

Signed at Pittsburgh, Pa this 7th day of
January, 2005.

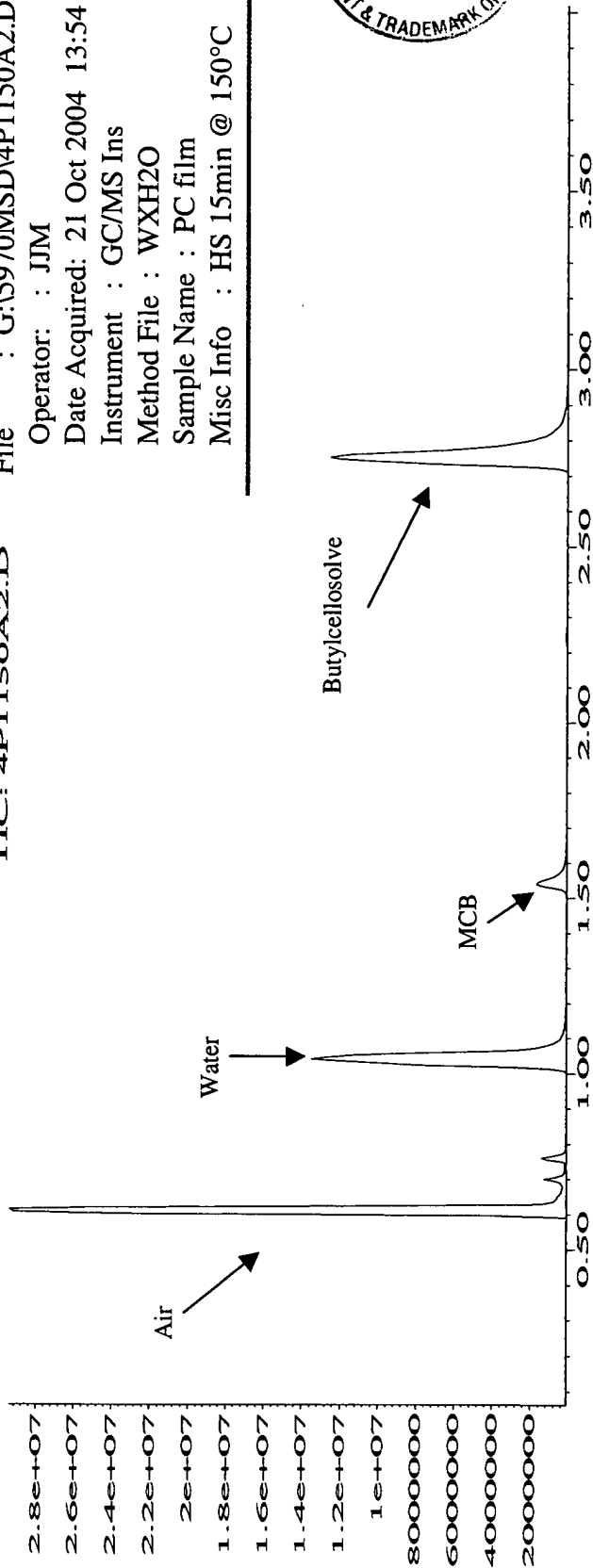


Joseph J. Martin

s:\shared\jmf\AP7093-martin

Abundance

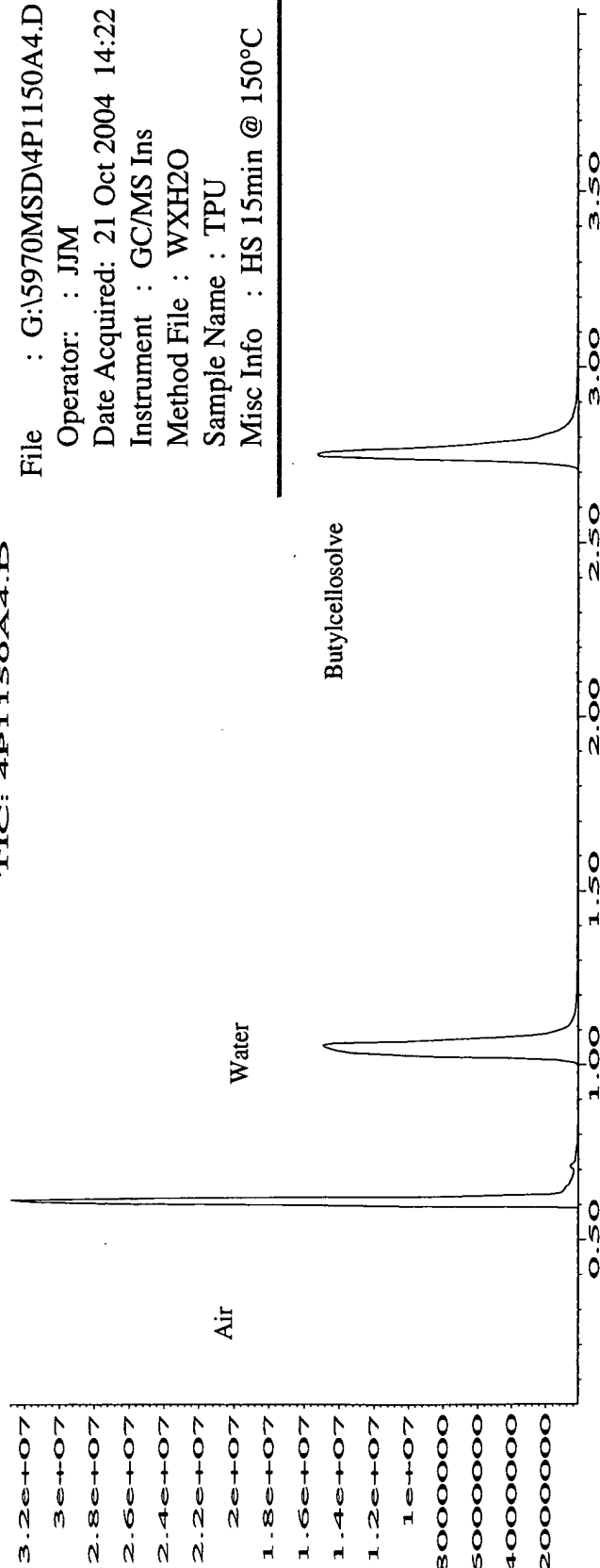
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Date Acquired: 21 Oct 2004 13:54
Instrument : GC/MS Ins
Method File : WXXH2O
Sample Name : PC film
Misc Info : HS 15min @ 150°C



Time-->

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File : G:\5970MSD\4P1150A4.D
Operator: : JJM
Date Acquired: 21 Oct 2004 14:22
Instrument : GC/MS Ins
Method File : WXXH2O
Sample Name : TPU
Misc Info : HS 15min @ 150°C



Time-->

Abundance

8000000
7500000
7000000
6500000
6000000
5500000
5000000
4500000
4000000
3500000
3000000
2500000
2000000
1500000
1000000
500000
0

04P1150 TPU
HS-GC-MS 10min
@150°C

butylcellosolve

0.50 1.00 1.50

Time-->

TIC: 4P1150F TPU.D

Abundance

2400000
2200000
2000000
1800000
1600000
1400000
1200000
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400000
200000
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TIC: 4P1150F TPU.D

butylcellosolve

DEG

Time-->

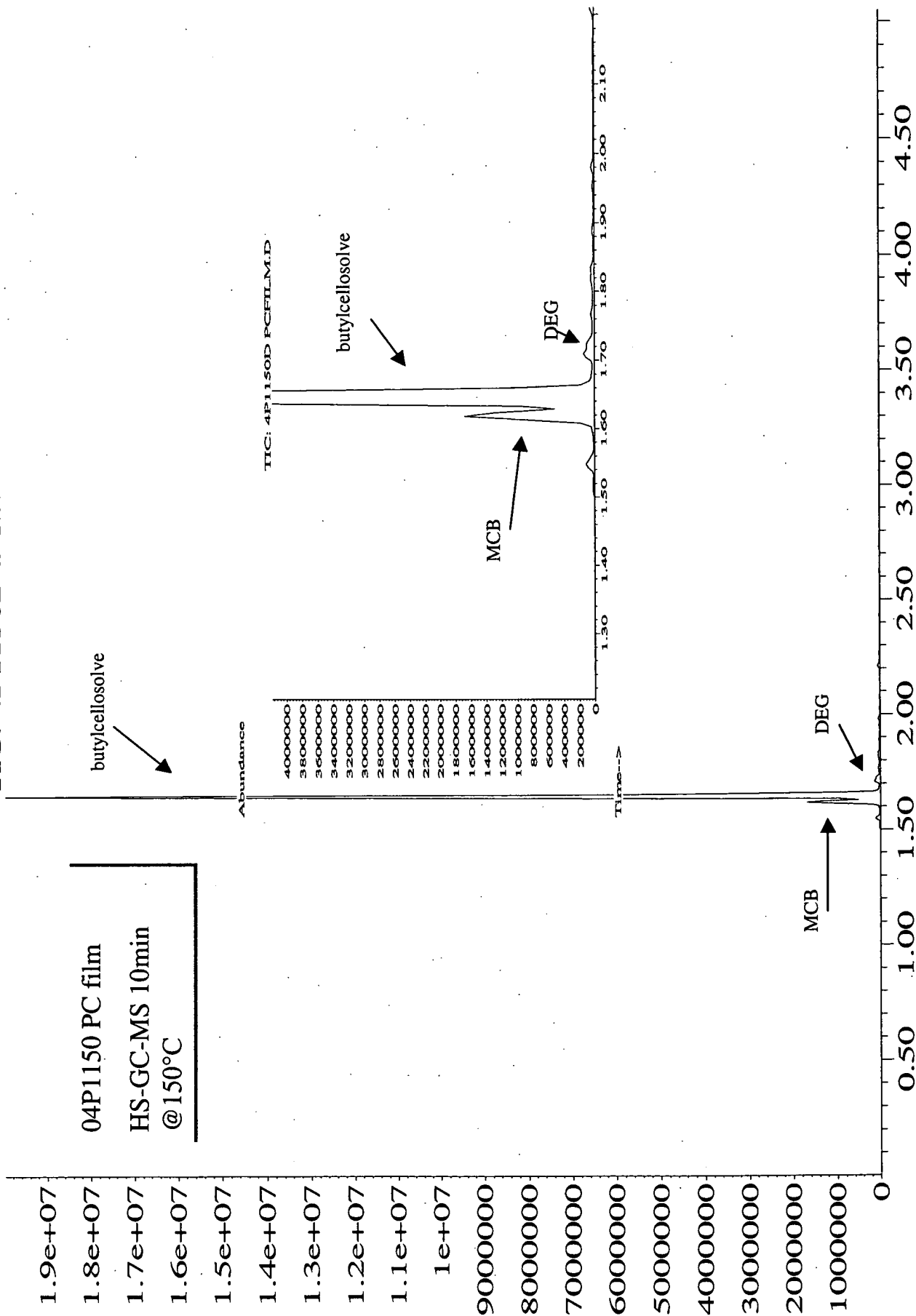
DEG

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4.00 4.50

Abundance

TIC: 4P1150D PCFILM.D



Time-->